

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the present application.

Listing of Claims

1. **(Currently Amended)** A hydraulic system for an aircraft comprising[;];
a hydraulic pump for pumping a hydraulic fluid through the hydraulic system at a normal operating pressure;
a reservoir for holding the hydraulic fluid; and
a two-stage pressure relief valve comprising:
a first stage for compensating for increases in hydraulic system pressure over the normal operating pressure and up to a selected threshold pressure level; and
a second stage for bringing the hydraulic system pressure down to a selected reduced operating pressure that is below the normal operating pressure in response to increases in the operating pressure over the threshold pressure level.
2. **(Currently Amended)** The hydraulic system according to claim 1, further comprising:
~~an optional~~ a heat exchanger for cooling the hydraulic fluid.
3. **(Original)** The hydraulic system according to claim 1, further comprising:
a timing means operably associated with the second stage for delaying full operation of the second stage.
4. **(Original)** The hydraulic system according to claim 3, wherein the timing means is a flow restrictor.

5. **(Original)** The hydraulic system according to claim 3, wherein the timing means allows for short spikes in the pressure of the hydraulic system prior to opening of the second stage.
6. **(Original)** The hydraulic system according to claim 1, wherein the threshold pressure level is about 22% higher than normal operating pressure.
7. **(Original)** The hydraulic system according to claim 1, wherein the selected reduced operating pressure is about 30% lower than the normal operating pressure.
8. **(New)** A two-stage pressure relief valve for a hydraulic system, comprising:
a first means for compensating for increases in a hydraulic system pressure over a normal operating pressure and up to a selected threshold pressure level; and
a second means for bringing the hydraulic system pressure down to a selected reduced operating pressure that is below the normal operating pressure in response to increases in the operating pressure over the threshold pressure level.
9. **(New)** The two-stage pressure relief valve according to claim 8, further comprising:
a timing means operably associated with the second means for delaying full operation of the second means.
10. **(New)** The two-stage pressure relief valve according to claim 8, further comprising:
a flow restrictor operably associated with the second means for delaying full operation of the second means.
11. **(New)** The two-stage pressure relief valve according to claim 8, further comprising:
a timing means operably associated with the second means for delaying full operation of the second means;

wherein the timing means allows for short spikes in the pressure of the hydraulic system prior to opening of the second means.

12. **(New)** The two-stage pressure relief valve according to claim 8, wherein the threshold pressure level is about 22% higher than the normal operating pressure.

13. **(New)** The two-stage pressure relief valve according to claim 8, wherein the reduced operating pressure is about 30% lower than the normal operating pressure.

14. **(New)** A hydraulic system, comprising:

a hydraulic pump for pumping a hydraulic fluid at a hydraulic system pressure;
and

a two-stage pressure relief valve comprising:

a first means for compensating for increases in the hydraulic system pressure over a normal operating pressure and up to a selected threshold pressure level; and

a second means for bringing the hydraulic system pressure down to a selected reduced operating pressure that is below the normal operating pressure in response to increases in the operating pressure over the threshold pressure level.

15. **(New)** The hydraulic system according to claim 14, further comprising:

a timing means operably associated with the second means for delaying full operation of the second means.

16. **(New)** The hydraulic system according to claim 14, further comprising:

a flow restrictor operably associated with the second means for delaying full operation of the second means.

17. **(New)** The hydraulic system according to claim 14, further comprising:

a timing means operably associated with the second means for delaying full operation of the second means;

wherein the timing means allows for short spikes in the hydraulic system pressure prior to opening of the second means.

18. **(New)** The hydraulic system according to claim 14, wherein the threshold pressure level is about 22% higher than the normal operating pressure.

19. **(New)** The hydraulic system according to claim 14, wherein the reduced operating pressure is about 30% lower than the normal operating pressure.